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UltraClear Sludge Digester

TIPS



Sludge accumulation in a pond occurs for a variety of reasons. Leaves and grass clippings can be blown into the pond. Droppings from animals such as fish, ducks, or geese can sometimes be significant. Even over-feeding the fish in the pond can promote sludge accumulation. In many ponds, the largest contributor to sludge build up is dead algae. Every year, algae populations increase to at least some extent during the warm sunny months. These algae die off,

and then become part of the sludge accumulation.

Sludge build-up causes four significant problems. First, it results in an anaerobic zone (meaning a zone without significant dissolved oxygen). An anaerobic zone is a place where potentially dangerous, disease-causing bacteria (pathogens) tend to grow. The larger the anaerobic zone (meaning the greater the depth of sludge build up), the greater the potential for significant populations of pathogenic bacteria in the pond, which can harm fish.

Second, sludge build-up is the main cause of pond odors. When the build-up is significant, hydrogen sulfide (which has a rotten egg odor) is produced. And hydrogen sulfide is not only odorous, but can poison fish.

Third, sludge build-up may deplete oxygen reserves, particularly during warm weather. The worse the build-up, the worse the oxygen depletion. Of course, low oxygen levels can be stressful or even fatal to fish or other wildlife.

Fourth, as sludge build-up reaches excessive levels, nitrogen and phosphorous that is part of the sludge will slowly be released. This nutrient release can cause severe water quality problems, including algae blooms.

Of course, the larger and deeper the pond, the more difficult it is to mechanically remove the sludge build-up. But there is a simple way to control sludge build up. Dose the pond as described below with **UltraClear Sludge Digester**.

How Does Ultra Clear Sludge Digester Work

UltraClear Sludge Digester contains a variety of bacteria that digest sludge.

It includes a class of bacteria that is facultative that works in an aerobic or anaerobic zone. First, it must be emphasized that Sludge Digester (or any biological product) is capable of digesting organic sludge, but not inorganic material such as sand, silt, or clay. Organic sludge refers to sludge of biological origin, such as leaves, grass, animal droppings, and dead algae.



Glossary of Terms

Here's a glossary of hot tub related terms to help you with your own hot tub research. Please contact us if you don't find an explanation that helps you!

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THERMOSPAS MENU

HOT TUB SHOWROOM

- > 2-3 Person
- > 3-4 Person
- > 4-5 Person
- > 5-6 Person
- > 6+ Person
- > Healing Spa
- > Swim Spa

WHY THERMOSPAS

- > Site Inspection
- > Custom Built Hot Tub
- > Best Hot Tub Prices
- > Top Quality
- > Local Service
- > Hot Tub Trade-Ins
- > Customer Care

BENEFITS

- > Health Benefits
- > Quality of Life
- > Year Round Fun
- > Financial Benefits
- > Warm Water Therapy

FEATURES

- > Bubbling System
- > Powerful Jets
- > Total Control Therapy™
- > Pumps and Heaters
- > Shell
- > ThermoBoard Cabinets
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- > Control Panels
- > Safety
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**ALREADY OWN A
HOT TUB?**

Glossary of Terms

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A

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Activator Shock or MPS (Monopersulfate), used as an oxidizer for sanitation of spas.

Alkalinity Measure of the water's ability to neutralize acid and maintain the pH level within the recommended range.

B

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Bromide A salt (typically sodium bromide) that releases bromine into the spa water when used in conjunction with the appropriate oxidizing agent.

Bromine Oxidizing agent used for sanitizing spa water. Not as aggressive as chlorine.

Buffer An agent added to the spa to prevent large fluctuations in the water's pH.

C

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Calcium A mineral typically found in hard water. Thermo Spas increases the mineral level of soft water by adding calcium.

Chlorine Used in a granular form, also called Sodium Dichloride. Very strong oxidizing agent used for sanitizing spas. Note that Free Chlorine in the water is capable of oxidizing, but Combined Chlorine has already reacted with some other compound and is no longer capable of sanitizing. Whenever testing Chlorine levels in your spa's water, make sure that you are measuring the Free Chlorine.

Chlorination A process similar to shocking, where a large amount of chlorine is added to the spa to treat biological waste and algae.

Control Panel Located on the top of the spa shell. Contains an LCD readout, and controls for the operating the pumps and regulating the spa water temperature.

D

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Diverter Valve Used to control the flow of water to multiple sections of the spa.

Diverter Jet A jet that includes a diverter valve to control the flow of water to multiple sections.

F

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Filter Mechanical method of removing solid contaminants from the spa water. The smaller the pores of the filter, the more efficient it will be at removing small particles. Fine filters, because of their efficiency, require more frequent changing and/or cleaning.

G

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GFCI Ground Fault Circuit Interrupt. Type of circuit breaker used for controlling electrical power to the spa. The GFCI breaker senses power leaks and automatically cuts power to the circuit.

H

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Hard Water Water with a high level of minerals including calcium, iron, magnesium, copper, etc.

Hardness Refers to the amount of calcium present in the water.

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N

[Back to Top](#)**Natural and Clear**

Enzyme based formula that breaks down dirt and oils found in spa water. Aids sanitizer in keeping spa water clean.

O

[Back to Top](#)**Ounce**

Unit of measure for chemicals. For all Thermo Spas chemicals - two tablespoons are the equivalent of one ounce.

Ozonator

A device that creates ozone for sanitizing the water in a hot tub spa. Thermo Spas currently offers several models of ozonators which can significantly reduce the need for traditional sanitizers.

Ozone

A strong oxidizer generated by an ozonator and injected directly into spa water. Although extremely effective as a sanitizer, ozone is not retained in the water for long periods of time and must be continuously generated. Ozone is typically used in conjunction with smaller amounts of a strong chemical oxidizing agent such as chlorine and bromine.

Oxidizer

An agent that causes oxidation. This compound removes built-up contaminants in hot tub water.

P

[Back to Top](#)**pH**

System of measure used to indicate the spa water's acidity level. 7.0 is neutral, less than 7.0 is acidic, greater than 7.0 is alkaline. The farther away from 7.0 the reading is, the greater the acidity or alkaline level. The optimum pH range for hot tub water is between 7.2 and 7.8.

pH/Alk Down

Thermo Spas additive used to lower the spa water's pH and Alkalinity.

pH/Alk Up

Thermo Spas additive used to increase the spa water's pH and Alkalinity.

ppm

(Parts Per Million) A unit used to indicate the level of a chemical(s) in the spa water.

Precipitate

A visible solid created when two or more dissolved chemicals in the spa water combine. Precipitates give the water a cloudy or colored appearance, and they will eventually accumulate at the bottom of the spa when the water is motionless for a long period of time.

S

[Back to Top](#)**Scale**

Precipitates that form on the spa shell and in the plumbing. Typically a white, flake-like substance that continues to build up if not removed.

Shock

A strong oxidizing agent that does not contain chlorine. Shock is used to break down biological wastes, and aids in the sanitization of the spa water. See [activator](#).

Shocking

Process of introducing shock into the spa. Spas should be shocked following use.

Soft Water

Water that has a low concentration of dissolved minerals (primarily calcium).

Stain and Scale

Thermo Spas additive to inhibit the formation of [precipitates](#) that will cloud the water and discolor the spa shell.

Starter Kit

Package of water chemistry additives accompanying your spa. These chemicals allow the spa to achieve the correct water chemistry during the initial fill. Enough chemicals are provided to start the water chemistry maintenance routine.

T

[Back to Top](#)**Tablespoon**

Unit of measure for adding most of Thermo Spas water maintenance chemicals. One tablespoon equals one half ounce.

TDS

Total Dissolved Solids. Combination of minerals, chemicals, and organic matter dissolved in the water.

Test Strip

Test strips are used to measure the spa water's pH, alkalinity, chlorine or bromine level, hardness and total dissolved solids.

Therapy Valve

Regulates the intensity of the jet action by controlling the mixture of water and air.

EXHIBIT C

Another website using the term “shock” to describe their treatment.

<http://septicare.com/Septic%20tank%20faq.php>

septic tank interrupts the flow of waste water so that the denser solids sink to the bottom and the lighter solids, such as grease and oils, rise to the top of the tank. The wastes in the septic tank are subject to attack by enzymes and bacteria. When the wastes are broken down and liquefied, the clarified liquids will flow out into the leach field where they are absorbed into the surrounding soil the septic tank acts as a reservoir for sludge and scum. In a septic tank that is properly functioning, a compaction layer of sludge will accumulate in the bottom of the septic tank and a relatively thin layer of scum will remain at the top of the septic tank. Sludge and scum in a well-functioning septic system contain minerals and nonfermentable organic matter. This accumulation should be removed from the tank before it reaches the level of the discharge outlet and flows into the leach field, eventually blocking the system. Unfortunately for the homeowner, this ideal septic system cannot exist. The heavier use of the septic system plus the use of today's soaps, detergents and cleaning agents together create problems in the septic system. We developed **SEPTICARE** to help the homeowner with their septic tank care and make the septic system a worry-free operation.

Q. I've been told to put a cake of yeast into my septic system. Does this help?

A. Yes, but very little. It is a step in the right direction, but it doesn't go far enough. Yeast only breaks down starches, which represent only a small percent of the wastes found in a septic system. You need **SEPTICARE** to give you complete breakdown of all five of the major types of wastes found in a septic system -- fats and greases, proteins, starches, pectins (vegetable peelings) and cellulose (toilet paper).

Q. Why does the water back up in other drains whenever I wash my clothes?

A. If you are doing many loads of wash in one day, you're probably exceeding the capacity of your septic system. This can be solved by limiting your washing to one load a day. If you are currently only washing one load a day, then your leach field is probably clogged. An initial treatment of 4 scoops, followed by daily treatments of 2 scoops for a week, then every other day for a week, and gradually reducing applications until maintenance rates are reached should unclog your leach field. If your distribution box is accessible, then flush 4 scoops of **SEPTICARE** directly down the leach field lines. For severe problems, **a shock treatment of 8 scoops of SEPTICARE** may be necessary.

Q. The ground over my drain field is so soggy, I'm unable to mow the grass. What would you recommend?

A. This is the sign of a glazed leach field. Make a solution of 4 scoops of **SEPTICARE** to 2 gallons of water and, using a sprinkling can, spread it over the area of standing water (it won't work if there is no standing water.) Also follow the instructions given in the answer to the previous question (...water back-up...). Do this on a daily basis until the condition clears. Leach fields do not become clogged

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Restoring Septic System Drain Fields

Restoring Failed Drain Fields:

Failed drain fields have been restored by applying Septic Seep in greater quantities. Good results have been obtained by applying 4 gallons directly to the drain field soil as a **shock treatment**. Septic Seep should be applied through a distribution box, cleanout, or el leading directly to the drain field, bypassing the septic tank. Have the tank pumped the day you intend to apply Septic Seep. All standing water should be pumped from the drain field if possible. You may have to dig below the surface of the soil to find your distribution box. If you do not have, or cannot find, a distribution box, cleanout, or el leading directly to the drain field, the product may be applied through the outlet of the septic tank using a funnel with a length of old garden hose attached. Place the end of the hose in the septic tank outlet and pour all 4 gallons through the funnel. Follow the application with enough clear water (up to 50 gallons) to flush the product deeper into the field.

WARNING: Septic tanks can be hazardous. Noxious gases collect in the top of the tank, and tank contents pose a health hazard. We recommend hiring a licensed professional septic service technician if application must be done through the tank outlet.

PLEASE NOTE: Some septic tanks have a "T" outlet, or baffle installed on the outlet to reduce the amount of solids flowing to the drain field. These types of systems may prevent accessing the outlet in this way. If it is not possible to access the tank outlet, or use any other method of direct drain field application the product may be applied through a toilet or drain. Although not AS effective as a shock treatment applied directly to the soil, application in this manner will help restore drain field soil. Septic Seep has been shown to be effective in solutions as dilute as 1 part per 1,000.

Septic Seep has been used successfully for over 50 years, but due to the wide range of contributing factors that may cause drain field failure, we cannot guarantee the effectiveness of Septic Seep.

West Wind Marketing has been selling Septic Seep on the Internet since

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 ▶ Bobs Aqua Care Products
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 ▶ Montana Waterfowl Foundation
 ▶ Pet Products & Services
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maintain your septic tank and plumbing system with a complete microbial formulation. SEPTIC SOLUTIONS provides such a formulation, which only needs to be added once or twice per month, easily introduced through toilets or sinks. Once applied, the powdered microorganisms become liquefied and they coat the submerged surfaces, to form a biofilm, which continually digests and decomposes the products listed above. Working in concert, these friendly microorganisms break down the incoming products to carbon dioxide, water, and essential minerals. Also, odors are removed because the microorganisms stabilize the system and offset the need for the production of noxious fumes.

The seven strains of microorganisms in SEPTIC SOLUTIONS are found in the *Bacillus* and *Pseudomonas* genera. They are spore-forming microorganisms, so they have been freeze dried into a powder form, in order to provide years of viability. They are non-pathogenic, non-corrosive, and they are safe to handle and apply. They work best in a pH range from 6.0 to 8.5, with optimal performance near neutrality, or near a pH of 7.0. Temperature also affects the activity of these microorganisms, for as temperature increases, so does their activity. Their optimal temperature is around 70°, while they can remain active down to 40°F and over 100°F. Furthermore, the presence of oxygen is important for best results, even though some activity can be expected without it. For best results, consult Aerated Septic Systems at: <http://www.aeratedsepticssystems.net>.

The concentration of SEPTIC SOLUTIONS is approximately 4 billion microorganisms per gram, or over 1.8 trillion microorganisms per pound. That concentration results in the following recommended dosages.

1. 500-Gallon, Septic Tank: 1 tablespoon/week, or 4 tablespoons (or about 2 oz./month)
2. 1,000-Gallon, Septic Tank: 2 tablespoons/week, or 8 tablespoons (or about 4 oz./month)
3. Sewage Treatment Lagoons: add 2 ppm/day, calculated according to the following formula:

$$\text{Dosage (lbs.)} = (\text{gallons in system})(8.3 \text{ lb./gal.})(2) / (1,000,000)$$

If severe problems exist, it is recommended that you increase the dosage, two-to-three times above the maintenance dosage. These amounts are considered "shock treatment" levels and should be administered only for a few days or a couple of weeks, until the problem is abated or is improved. Afterwards, maintenance levels should be sufficient to maintain proper treatment levels

Bifer Environmental Services

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<http://www.septicsystemhelp.com/septalguarantee.html>

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after using Septal... never a problem. It's wonderful stuff!
Mr. A. N. (Ontario)

price will be refunded if you are not satisfied within four weeks of purchase. Compared with over \$100 for a pump-out and thousands of dollars for a new septic system, this risk-free solution is a must - to help correct problems, or to act against future problems.

IT'S SAFE!

Septal is a scientific way of treating septic tanks, disposal systems, cesspools and outhouses. It works to help restore normal action to systems, reducing odors and health threats to your family and environment.

IT'S STRONG!

Our industrial strength product has been used by large industries for years. Septal helps reduce solids, crusts, detergents and grease, neutralizing toxic elements and liquefying solids.

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IT'S EASY TO USE!

METHOD 1
SHOCK TREATMENT TO CORRECT PROBLEMS

If problems already exist with your system, use the "Fast shock treatment". Using the deluxe measuring scoop included with your two year supply, flush 1/2 cup of SEPTAL down the toilet each day until the problems are corrected and normal flow is restored. Commence regular maintenance program to help keep future problems from returning.

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6.6 lbs / 3 kgs box




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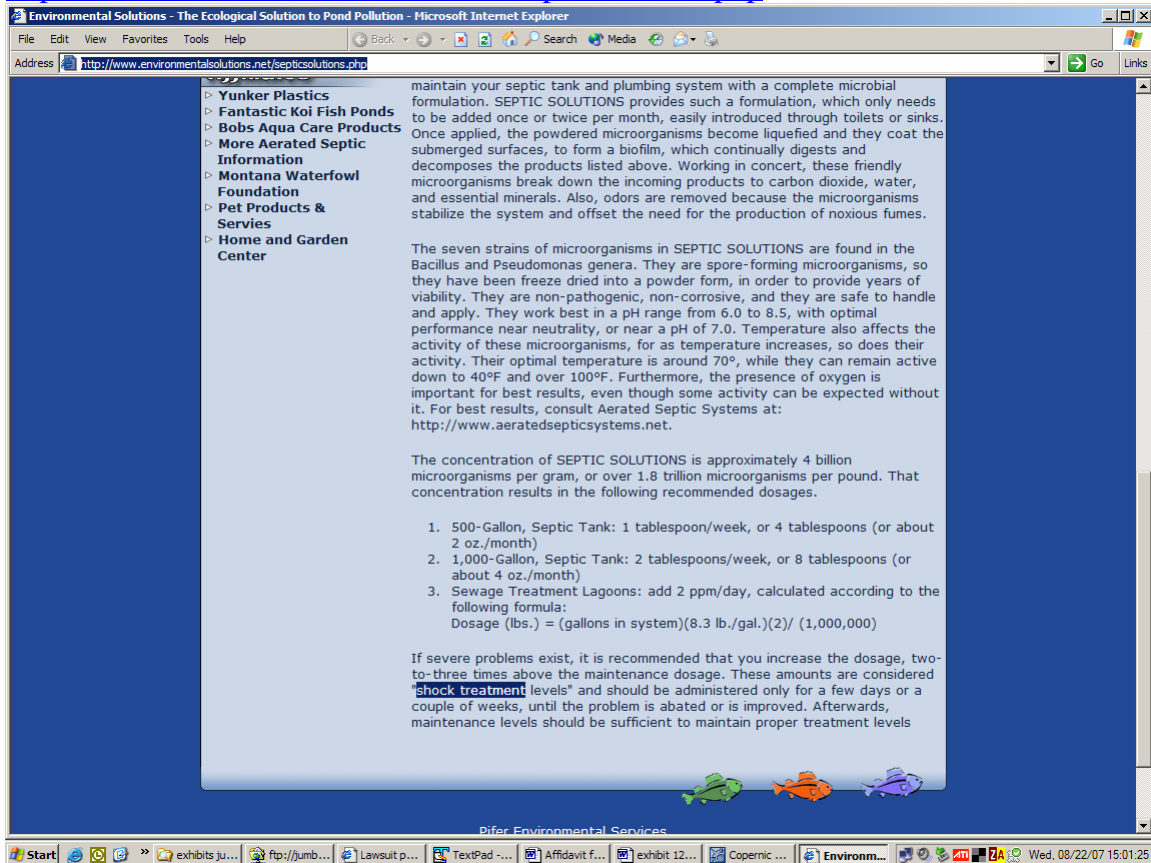
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Address <http://www.septicseep.com/>

Septic Seep is easy to apply to your septic system.

For normal working septic systems: Use 1/2 gallon every 6 months applied through the toilet, sink drain or convenient drain near the septic tank.

For sluggish septic systems: Use 1 gallon for the first treatment, then use 2 cupfuls (16oz.) per week for the next 4 weeks, then use 1 cup (8oz.) per week.

Cesspools and seepage pits: Use 1/2 gallon for the first treatment, then 1 cup (8oz.) every 2 weeks per pit.

Restoring Failed Drain Fields: In actual field experience, failed drain fields have been restored by applying Septic Seep in greater quantities. Good results have been obtained by applying 4 gallons directly to the drain field soil as a **shock** treatment.

Septic Seep Is the Choice of Professionals

Our company has been using Septic Seep for more than twenty years. We use it as a maintenance product as well as a treatment for failing drain fields. Many of our service calls come from home owners who are having problems with their septic systems backing up. Some of the time, pumping the septic tank solves the problem; however, if we have a drain field that is not accepting water, we always recommend treating it with Septic Seep prior to pursuing a drain field replacement. Although Septic Seep works best as a preventative maintenance item, we have been very successful in rejuvenating failed drain fields. A typical drain field replacement in our area can run as high as \$6,000. The normal Septic Seep treatment we recommend is to add 4 gallons of Septic Seep directly into the drain field line whether it be through a clean-out, distribution box, or directly through the outlet septic el. I have seen many failed drain fields open up and begin percolating again after this treatment. It doesn't always work, but it's worth a try if it might save our customers several thousand dollars.

Peter Dew, General Manager
Peninsula Septic Tank Service
Carmel Valley, CA

used Septic Seep, as per instruction and within a day the system was working. It's been a month, although at first we were being careful not to over load the system we are now back to normal. Use my name if you wish as I recommend this product to my friends and neighbors.

Ruben G
Kelseyville, CA

I just wanted to say that I thought your product had about a 1/1,000,000 chance of fixing my septic problem and was some sort of scam, but thankfully I took the risk and I can't believe it, but it worked like a charm! I bought my house in Oct. 2003 only to find out that it had a MAJOR septic problem. Whenever it even rained a little, surface water would backflow into my tank and fill it to the top. I spent \$600 in 6 months pumping my septic and using a portable toilet to get by. Then, before having a holding tank installed I tried Septic Seep as a last resort. I put 2 gallons into the D box and vent pipe and. Now my system works excellent, even after 3-4 inches of rain.

Unbelievable! Thanks a bunch!

Matt G.
Neenah, WI.

MORE TESTIMONIALS

GOT Gunk? 
In your drain field?
Mega-Bio is specially

Start | exhibits ju... | ftp://jumb... | Lawsuit p... | TextPad -... | Affidavit f... | exhibit 12... | Copernic ... | Septic Sy... | Wed, 08/22/07 15:05:35

Another online merchant in business since 1978, using “shock” as a product effect description.

<http://www.arrowseptic.com/Hydro.html>

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Septic & Sewer

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Hydro-Jetting Drainfield Rejuvenation

Do these problems sound familiar?

- Tank level is consistently high, BUT no water comes back from the drainfield when pumped down.
- Typically no wet areas in drainfield area.
- Septic tank has not been properly maintained every 1 - 5 years.

The solution could be hydro-jetting your drainfield. Our technicians can evaluate your system to see if this solution may work for you.

When the septic tank is not cleaned out on a regular basis (every 1-5 years dependant on household size) it cannot filter sludge properly which causes sludge to escape in to the septic drainfield. Once this happens, sludge clogs the holes in your septic drainfield lines and prevents the water from getting out of the pipes and into the soil.

What you get with the hydro-jetting service:

- Hydro-jet field lines clean with new powerful equipment.
- Pumper truck on site to vacuum clean the disturbed sludge OUT of field lines (otherwise, the sludge settles right back into the field lines again!)
- Commercial strength **enzyme shock treatment** to attack any leftover residue that may remain

Arrow Septic Services

1. Septic Pumping - Commercial and residential	5. Troubleshoot and Repair Septic System Problems -	9. Hydro Jetting Drainfield Restoration - High pressure water
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Another online retailer using the term “shock” to describe their product.

<http://www.enviopro.com.au/products/ssr.html>

